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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/037,243

DATE: 06/10/2002

TIME: 14:49:29

Input Set : A:\BSA01-22.txt

Output Set: N:\CRF3\06102002\J037243.raw

ENTERED

3 <110> APPLICANT: Brookhaven Science Associates, LLC.
 4 Freimuth, Paul I
 5 Zhang, Yian-Biao
 6 Howitt, Jason A
 8 <120> TITLE OF INVENTION: Facilitating Protein Folding and Solubility by Use of
 Peptide Extensions
 10 <130> FILE REFERENCE: BSA 01-22
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/037,243
 C--> 13 <141> CURRENT FILING DATE: 2002-06-03
 15 <160> NUMBER OF SEQ ID NOS: 46
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 57
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic bacteriophage
 T7 g
 26 ene 10B protein
 28 <400> SEQUENCE: 1
 30 Phe Gln Ser Gly Val Met Leu Gly Val Ala Ser Thr Val Ala Ala Ser
 31 1 5 10 15
 34 Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu Thr Pro Ala
 35 20 25 30
 38 Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Arg Lys Glu Ala
 39 35 40 45
 42 Glu Leu Ala Ala Ala Thr Ala Glu Gln
 43 50 55
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 47 <211> LENGTH: 6
 48 <212> TYPE: PRT
 49 <213> ORGANISM: Artificial Sequence
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 52 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic motif
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 56 Ala Ala Asn Lys Ala Arg
 57 1 5
 60 <210> SEQ ID NO: 3
 61 <211> LENGTH: 6
 62 <212> TYPE: PRT
 63 <213> ORGANISM: Artificial Sequence
 65 <220> FEATURE:
 66 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic recognition
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68 <400> SEQUENCE: 3
70 Ala Ala Asn Asp Glu Asn

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80 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
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84 Cys Leu Glu Asp Pro Ala Ala Asn Lys Ala Arg Lys Glu Ala Glu Leu
85 1          5          10          15
88 Ala Ala Ala Thr Ala Glu Gln
89          20
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 61
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7C peptide
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102 Leu Glu Asp Pro Phe Gln Ser Gly Val Met Leu Gly Val Ala Ser Thr
103 1          5          10          15
106 Val Ala Ala Ser Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr
107          20          25          30
110 Leu Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala
111          35          40          45
114 Arg Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
115          50          55          60
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119 <211> LENGTH: 44
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B peptide
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128 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
129 1          5          10          15
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133          20          25          30
136 Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
137          35          40
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146 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B1 peptide
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150 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
151 1          5          10          15

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158 Lys Glu Ala Glu Leu Thr Ala Glu Gln
159           35           40
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168 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B2 peptide
170 <400> SEQUENCE: 8
172 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
173 1           5           10           15
176 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Pro Pro Asn Lys Ala Arg
177           20           25           30
180 Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
181           35           40
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185 <211> LENGTH: 44
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189 <220> FEATURE:
190 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B3 peptide
192 <400> SEQUENCE: 9
194 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
195 1           5           10           15
198 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Gly Gly Asn Lys Ala Arg
199           20           25           30
202 Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
203           35           40
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212 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B4 peptide
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216 Leu Glu Asp Pro Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala
217 1           5           10           15
220 Asn Lys Ala Arg Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
221           20           25           30
224 <210> SEQ ID NO: 11
225 <211> LENGTH: 44
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B5 peptide
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235 1          5          10          15
238 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Arg
239          20          25          30
242 Lys Glu Ala Glu Leu Glu Ala Glu Thr Ala Glu Gln
243          35          40
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247 <211> LENGTH: 44
248 <212> TYPE: PRT
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251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B6 peptide
254 <400> SEQUENCE: 12
256 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
257 1          5          10          15
260 Thr Pro Ala Gln Glu Ala Ala Glu Thr Glu Ala Ala Asn Lys Ala Arg
261          20          25          30
264 Lys Glu Ala Glu Leu Glu Ala Glu Thr Ala Glu Gln
265          35          40
268 <210> SEQ ID NO: 13
269 <211> LENGTH: 44
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B7 peptide
276 <400> SEQUENCE: 13
278 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
279 1          5          10          15
282 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Glu
283          20          25          30
286 Glu Glu Ala Glu Leu Glu Ala Glu Thr Ala Glu Gln
287          35          40
290 <210> SEQ ID NO: 14
291 <211> LENGTH: 44
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B8 peptide
298 <400> SEQUENCE: 14
300 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
301 1          5          10          15
304 Thr Pro Ala Gln Glu Ala Ala Glu Thr Glu Ala Ala Asn Lys Ala Glu
305          20          25          30
308 Glu Glu Ala Glu Leu Glu Ala Glu Thr Ala Glu Gln
309          35          40
312 <210> SEQ ID NO: 15
313 <211> LENGTH: 39
314 <212> TYPE: PRT
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:

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318 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B9 peptide
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322 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
323 1          5          10          15
326 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Arg
327          20          25          30
330 Lys Glu Ala Glu Leu Ala Ala
331          35
334 <210> SEQ ID NO: 16
335 <211> LENGTH: 40
336 <212> TYPE: PRT
337 <213> ORGANISM: Artificial Sequence
339 <220> FEATURE:
340 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B10 peptide
342 <400> SEQUENCE: 16
344 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
345 1          5          10          15
348 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Asn Lys Ala Arg
349          20          25          30
352 Lys Glu Ala Glu Leu Ala Ala Ala
353          35          40
356 <210> SEQ ID NO: 17
357 <211> LENGTH: 44
358 <212> TYPE: PRT
359 <213> ORGANISM: Artificial Sequence
361 <220> FEATURE:
362 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B11 peptide
364 <400> SEQUENCE: 17
366 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
367 1          5          10          15
370 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Ala Ala Ala Lys Ala Arg
371          20          25          30
374 Lys Glu Ala Glu Leu Ala Ala Ala Thr Ala Glu Gln
375          35          40
378 <210> SEQ ID NO: 18
379 <211> LENGTH: 41
380 <212> TYPE: PRT
381 <213> ORGANISM: Artificial Sequence
383 <220> FEATURE:
384 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic T7B12 peptide
386 <400> SEQUENCE: 18
388 Leu Glu Asp Pro Glu Glu Ala Ser Val Thr Ser Thr Glu Glu Thr Leu
389 1          5          10          15
392 Thr Pro Ala Gln Glu Ala Ala Arg Thr Arg Lys Ala Arg Lys Glu Ala
393          20          25          30
396 Glu Leu Ala Ala Ala Thr Ala Glu Gln
397          35          40
400 <210> SEQ ID NO: 19
401 <211> LENGTH: 41

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/037,243

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Input Set : A:\BSA01-22.txt

Output Set: N:\CRF3\06102002\J037243.raw

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date